

ABSTRACT OF THE DISCLOSURE

Disclosed is a hybrid multi-user interference cancellation method for canceling interference between a plurality of user signals, which comprises:

5 receiving a plurality of external user signals, calculating powers of the user signals, and numbering the calculated signal powers in their intensity orders; sorting the user numbers in descending order; forming at least one user cluster so that the signal powers following the sorted user numbers may differ less from a central value or a mean value in the same cluster; and performing

10 parallel interference cancellation on the respective user signals within the same cluster, and performing successive interference cancellation between the formed clusters.